



PATENT ABSTRACTS OF JAPAN

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H04B 7/26(21) Application number: **03227611**(22) Date of filing: **09.09.91**(71) Applicant: **NEC CORP**(72) Inventor: **MANABE SHINICHI****(54) AUTOMOBILE TELEPHONE SET SYSTEM****(57) Abstract:**

PURPOSE: To facilitate the re-design of the system by allowing a mobile station to measure reception delay information from an adjacent base station, to report it to a base station together with the measurement result of an electric field strength and electric field quality and allowing the base station to analyze the reported data thereby obtaining lots of information sets.

CONSTITUTION: A timing advance (reception delay information) measurement section 204 of a mobile station 200 measures a propagation delay time of an outgoing signal from a base station 100 to the station 200 with respect to an incoming signal from the mobile station 200 to the base station 100. The reception delay information as the result of measurement is sent to a transmission data generating section 205 together with data of the electric field strength and electric field quality. Then the data are replaced into data having a designated format and returned to the station 100 for a prescribed period via an electric field transmission section 206. On the other hand, the station 100 uses the electric field strength section 104 to receive the data sent from the station 200, a reception data processing section 105 analyzes the received data of the electric

field strength and electric field quality and uses the data for a purpose of network management or the like.

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